

CATALASE ACTIVITY IN BOAR SPERM IN THE PERIOD OF SEX MATURATION

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It is found out features of the dynamics of catalase in boar sperm during the formation of sexual function. It has been determined that the

activity of CT in the sperm of young boars from the 5th to the 9th month of life increases substantially. Especially significant increase in the levels of functioning was noted during the 6th and 7th months of development of boars. The incubation of sperm samples leads to a significant decrease in the activity of CT, especially vulnerable this tissue was to the action of the temperature factor in 5, 6 and 7 monthly boars. In animals of universal and fat direction of the productivity in the age of 10 month the level of functioning this enzyme after incubation of sperm increases. The experimental data on activity in the semen of boars CT indicate overall increase of imple- Dovže trial period: the meat in 2 ($p < 0.05$), universal - 1.3 and 1.2 times the sebaceous (tab.). Dynamics of enzyme activity specified in the tissue of animals and characterized by rapid growth since the beginning of the experiment to seven month at 48.3%, with a further increase to the maximum level at the end of nine months, followed by a slight decrease. The representatives of the second group of CT activity grew substantially during the whole period of the experiment. In knurtsiv Group III investigational enzyme levels significantly increased from 150 to 270 days of 82,3% and in the last month of the experiment were not significantly changed.

Sperm tend to produce physiological levels of oxygen radicals and peroxides, which are a prerequisite for the stimulation of their hyperactivation, kapatsytatsiyi, merger of oocyte and embryo development [2, 3, 4, 5]. The concentration of hydrogen peroxide in the semen is due PROOXIDATIVE anti-oxidant homeostasis is controlled and catalase.

The elucidation of regularities of individual units pero- ksydnoho oxidation process in the semen of young knurtsiv is a prerequisite for the development of various methods and ways of correcting the quality of their sperm followed by obtaining a full-fledged offspring.

Key words: boar, sperm, catalase